PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-046886
(43)Date of publication of application : 20.02.2001

(51)Int.Cl. B01J 35/04
C04B 35/195
F01N 3/28

(21)Application number : 11-227174
(22)Date of filing : 11.08.1999

(71)Applicant : DENSO CORP
(72)Inventor : NISHIMURA MAMORU
UEDA TSUYOSHI

(54) CERAMIC HONEYCOMB STRUCTURE

(57)Abstract:
PROBLEM TO BE SOLVED: To enhance thermal shock resistance, in a ceramic honeycomb structure consisting of partition walls arranged in a lattice state to form a large number of cells and an outer skin covering the periphery of the partition walls, by forming slits to the outer skin over the total length in the longitudinal direction thereof to cut the outer skin.
SOLUTION: A ceramic honeycomb structure 1 is formed from partition walls 10 arranged in a lattice state to form a large number of cells 19 and an outer skin 15 covering the periphery of the partition walls 10. In this case, slits 2 are formed to the outer skin over the total length in the longitudinal direction thereof to cut the outer skin 15. These slits 2 are formed to cylindrical outer skin 15 at positions equally dividing the outer skin, for example, into eight parts in the circumferential direction thereof at an equal interval. Further, the width of each of the slits 2 is made zero and both end surfaces 21, 22 forming each slit 2 are brought to a mutual contact state. The slits 2 are formed simultaneously with the extrusion molding of the ceramic honeycomb structure 1 from a ceramic material based on cordierite.